

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
PA136158/PCT	FOR FURTHER AC	ER ACTION See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)				
PCT/IB2005/000061	13.01.2005		15.01.2004				
International Patent Classification (IPC) or national classification and IPC							
INV. C09K3/14							
Applicant							
ELEMENT SIX LIMITED et al.							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total	2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
3. This report is also accompanied	-						
a. 🗆 sent to the applicant and			.				
☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
☐ sheets which supers	ede earlier sheets, but wh	nich this Authority consi	ders contain an amendment that goes				
beyond the disclosur Supplemental Box.	beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the						
			r of electronic carrier(s)) , containing a ndicated in the Supplemental Box				
Relating to Sequence Lis	sting (see Section 802 of t	he Administrative Instru	uctions).				
	1 2 1 2 6 11						
4. This report contains indications	relating to the following it	ems;					
☐ Box No. I Basis of the re	eport						
☐ Box No. II Priority							
		rd to novelty, inventive	step and industrial applicability				
Box No. IV Lack of unity of		الما والمارية المارية					
	⊠ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
☐ Box No. VI Certain docun							
l control of the cont	☐ Box No. VII Certain defects in the international application						
☐ Box No. VIII Certain obser	☐ Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of thi	s report				
11.11.2005		10.05.2006					
Name and mailing address of the internati	onal	Authorized officer	eches Poloniam.				
preliminary examining authority: European Patent Office			Stern M. is				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52:	3656 epmu d	Rosenberger, J	space (III)				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000061

_	В	ox No. I Basis of the report					
1	. W	With regard to the language, this report is based on					
	\boxtimes	the international application in the language in which it was filed					
		a translation of the international application into, which is the language of a translation furnished for the purposes of:					
		 ☐ international search (under Rules 12.3(a) and 23.1(b)) ☐ publication of the international application (under Rule 12.4(a)) ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a)) 					
2	2. With regard to the elements * of the international application, this report is based on <i>(replacement sheets who have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):</i>						
	Description, Pages						
	1-8	as originally filed					
	Claims, Numbers						
	1-1	1 as originally filed					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3.		The amendments have resulted in the cancellation of:					
		☐ the description, pages ☐ the claims, Nos.					
		☐ the drawings, sheets/figs ☐ the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.	had	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)).					
		☐ the description, pages ☐ the claims, Nos.					
		☐ the drawings, sheets/figs ☐ the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
	*	If item 4 applies, some or all of these sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000061

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3

No: Claims

1,4-11

Inventive step (IS)

Yes: Claims

No: Claims

1-11

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2005/000061

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The following document is cited from the examiners knowledge:

D3: US 5 024 680 A

2. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claims 1,2 and 4-11 is not new in the sense of Article 33(2) PCT for the following reasons:

Document D3 discloses in claim 1 a diamond grit comprising diamond particles coated with an inner layer of chromium carbide and an outer layer of a metal deposited on the inner layer. In example 1 the material of the outer layer is tungsten. According to claim 13 the outer tungsten layer can be deposited by physical vapour deposition.

The subject-matter of claims 1,2 and 4-11 is thus not new compared with D3.

- 3. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claim 3 does not involve an inventive step in the sense of Article 33(3) PCT for the following reasons:
- 3.2 Replacing the metals for the outer coating disclosed in D3 by the specific alloys of present claim 3 can only be regarded as inventive, if this selection leads to an unexpected technical effect. However, no such effect is indicated in the application. Hence, no inventive step is present in the subject-matter of claim 3 over the disclosure of D3.